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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/509,021	04/11/2005	Ichiro Tsukada	259427US2PCT	1104
22850 7590 07/31/2008 OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314			EXAMINER CHIEN, LUCY P	
			ART UNIT 2871	PAPER NUMBER
			NOTIFICATION DATE 07/31/2008	DELIVERY MODE ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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Office Action Summary	Application No. 10/509,021	Applicant(s) TSUKADA, ICHIRO	
	Examiner LUCY P. CHIEN	Art Unit 2871	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 1/29/2008.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 2-4, 7-9, 13 and 18-23 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 2-4, 7-9, 13 and 18-23 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 27 September 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>9/27/2004</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

IDS

Examiner did not consider one of the references in the IDS sent out 1/29/2008 was due to an error. Examiner has considered the IDS again.

Response to Arguments

Applicant's arguments with respect to claim 2-4,7 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

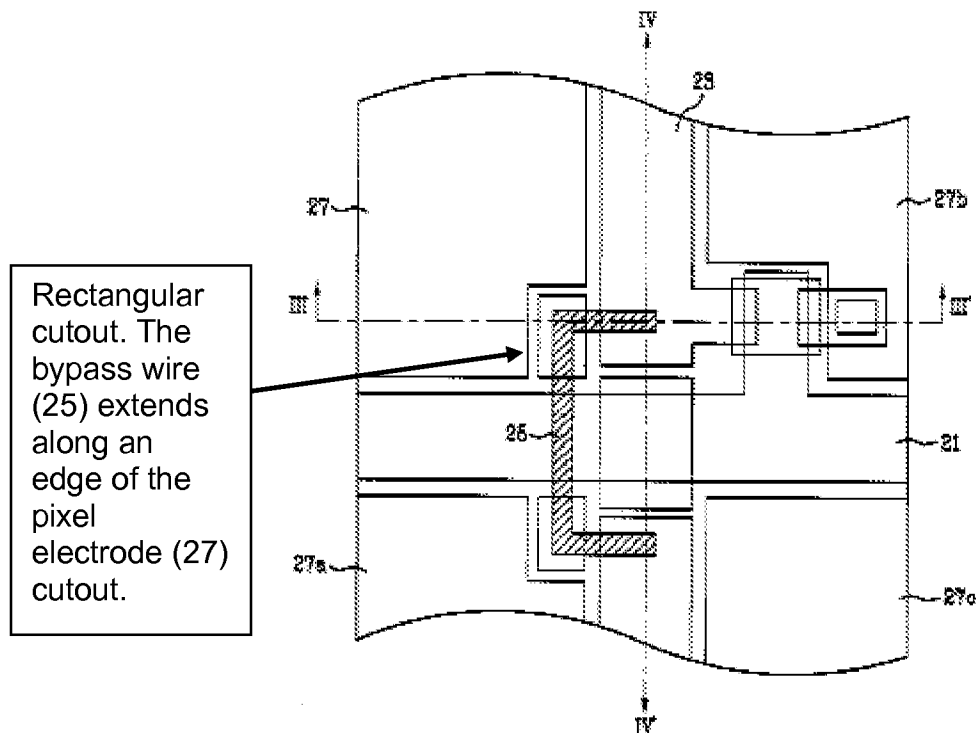
Claim 2,4,7,8,13,23 are rejected under 35 U.S.C. 102(b) as being anticipated by Choi (US 20010035920).

Regarding Claim 2,7,8,13,23

Choi discloses ([0053], Fig. 2, Fig. 3D and Fig. 4D) a plurality of scanning lines (21); a plurality of signal lines (23) arranged substantially perpendicular to the scanning lines through a first insulator film (22) there between; switching elements (TFT) respectively disposed in a vicinity of each intersection of the scanning and signal lines, and a terminal of the switching element being electrically connected with the signal line (23); a second insulator film (26) covering such multi layer wiring pattern; pixel

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electrodes (27) arranged in a matrix as to respectively correspond to said each intersection, on the second insulator film (26); pixel-electrode contact holes perforating the second insulator (26) film as to electrically connect another terminal of each switching element to a pixel electrode; an area containing and detecting a wire breakage to a signal or scanning line [0036]; a pair of contact holes perforating the second insulator film (26) as to expose an upper face of said signal or scanning line, at wire portions interlaying the area containing wire breakage; a bypass wire (25)(Fig. 4D) extending from one to another of the pair of contact holes as to detour a vicinity of the area containing wire breakage and to electrically connect said wire portions interlaying the area containing wire breakage; a pixel-electrode cutout [0053] which is a sold region cut out from a linear fringe (shown below) being formed by rectangular removing a pixel electrode throughout an area ranging from the vicinity of the area containing wire breakage to a place receiving the bypass wire, which extends along an edge of the pixel electrode cutout (shown below). And the bypass wire (25) running along edge of the pixel electrode cutout as to detour vicinity of the wire breakage and electrically connecting two wire parts interlaying the wire breakage, by sequential or continuous depositing of a conductive layer (bypass line) at an inside edge of the cutout to run along the edge of the cutout at a present distance form the edge (shown below) using laser CVD technique ([0050]).



Regarding Claim 13,

Choi discloses ([0053], Fig. 2, Fig. 3D and Fig. 4D) wherein when the wire breakage is determined due to interposing of a foreign matter (not mentioned, but it is known in the art that short circuits are caused by foreign matter), then forming the cutout and the forming of the bypass wire; and when the wire breakage is determined to be due to other cause, then a connecting wire (bypass wire) extending along the wire is formed by CVD technique.

Regarding Claim 4,

Choi discloses (Fig. 5) the bypass wire (25) being spaced apart from the pixel electrode (27) as to prevent electrical contact between them. The pixel electrode has a rectangular cut out (space between (27) and (23)).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 3,9,18-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Choi (US 20010035920) in view of Um et al (US 20030133055)

Regarding Claim 3,9,18-22.

Choi discloses everything as disclosed above.

Choi does not disclose light-insulator film arranged to entirely cover an area that is within the pixel electrode cutout and is surrounded by the area containing wire breakage, the bypass wire and the wire portions interlaying the area containing wire breakage.

Um et al discloses a light-insulator film (black matrix) see [0088]) to block light leakage generated by the cutouts.

It would have been obvious to one of ordinary skill in the art to modify Choi to include Um et al's light insulator film directly overlapping the bypass wire motivated by the desire to block light leakage generated by the cutouts [0088].

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LUCY P. CHIEN whose telephone number is (571)272-8579. The examiner can normally be reached on M-F 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on (571)272-1787. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Lucy P Chien
Examiner
Art Unit 2871

/David Nelms/

Supervisory Patent Examiner, Art Unit 2871